
ATTACHMENT 3
SOUTH ORANGE COUNTY IRWM PLANNING GRANT PROPOSAL
WORK PLAN

OBJECTIVE

The objective is to complete a South Orange County IRWM Plan in compliance with Proposition 84 Guidelines within a 2-year contract period. To meet this objective, the proposed work plan includes completion of the following components:

1. Climate Change Analysis
2. Salt & Nutrient Management Plan
3. Floodplain Management Plan
4. Groundwater Management and Facility Plan, and
5. Revised South Orange County IRWMP to meet Proposition 84 IRWM Plan Standards.

Task 1: PLANNING STUDIES**Task 1.1 CLIMATE CHANGE ANALYSIS**

The South Orange County IRWM Group will prepare a climate change analysis for the IRWM Plan based on DWR's forthcoming climate change guidelines. The scope of work anticipates the following:

- A. Preparation of an evaluation of the adaptability of water management systems in the region to climate change, including water supply, wastewater, and flood control systems.
- B. IRWM Plan Update will contain a gross Green House Gases (GHG) inventory of the water management systems in the region, to help define the region's baseline. Project-level GHG emissions assessments will be collected from California Environmental Quality Act (CEQA) and California Air Resources Board (CARB) documentation, where available. GHG emissions for all other regional facilities will be estimates based on industry standards. This GHG Inventory will be a useful tool for the region in understanding the region baseline and in selecting IRWM projects that reduce regional emissions. The other Tri-FACC members will be engaged during the technical review of this study so that overlay areas are addressed in a consistent manner.
- C. Describe the Climate Change Analysis and results and include in Section 12 of the IRWM Plan.

Deliverables:

- Draft Climate Change discussion for the IRWM Plan.

Task 1.2 SALT AND NUTRIENT MANAGEMENT PLAN (SNMP)

The State of California adopted the Recycled Water Policy (Policy) that requires Salt and Nutrient Management Plans (SNMPs) be developed to manage salts, nutrients, and other significant chemical compounds on a watershed- or basin-wide basis. The Policy specifies that SNMPs are to be developed in a cooperative and collaborative manner among water and wastewater agencies and other salt/nutrient stakeholders. The SNMPs are intended to help streamline permitting of new recycled water projects while ensuring compliance with water quality objectives and protection of beneficial uses. The South Orange County IRWM Group (IRWM Group) proposes to develop a SNMP for the IRWMP.

Task 1.2.1 Establish Collaborative Process

The South Orange County IRWM Group shall develop and lead a collaborative stakeholder process that meets Policy requirements. Tasks include:

Task 1.2.2 Develop Working Groups

Active participants in the SNMP process are assumed to be part of one of two groups intended to help guide and gain input for the SNMP.

- A. **Technical Working Group.** This group consists of those who contribute technical information and provide technical review. This group is assumed to consist of staff from the IRWM Group member agencies and a member of the San Diego Regional Water Quality Control Board (RWQCB). The other Tri-FACC members will be engaged during the technical review of this study so that overlay areas are addressed in a consistent manner.
- B. **Stakeholder Advisory Committee.** This group consists of those whose activities and operations may impact salt and nutrient management in the Basin, including: agricultural interests, private well owners, environmental groups, regulatory staff, and the general public. The IRWM Group shall identify stakeholders and develop a contact list. IRWM Group shall maintain coordinate workshop notifications and deliverable distribution with stakeholders.

Task 1.2.3 Coordinate with Technical Working Group

IRWM Group shall lead as many as four conference calls with the Technical Working Group to collect data and coordinate review of deliverables. Calls shall be coordinated to coincide with key data collection, review of major deliverables and follow-up from Stakeholder Workshops. The calls are currently expected to take place at the following points:

- 1. Project Kick-Off and Source Identification Input
- 2. Groundwater Data Collection
- 3. Anti-Degradation Analysis and Monitoring Plan Review
- 4. Draft Salt/Nutrient Management Plan Review

Task 1.2.4 Conduct Salt/Nutrient Management Plan Workshops

South Orange County IRWM Group shall conduct three, 2-hour long public workshops intended to help gather input from stakeholders and provide a forum for discussion of salt/nutrient issues. South Orange County IRWM Group shall prepare an agenda and slides for the workshop, and guide the stakeholder discussion and technical presentation. This task will also involve meeting notification, presentation materials, sign-in, and notes. South Orange County IRWM Group shall provide workshop materials, including agenda and draft documents, to the stakeholders at least one week in advance of the workshop (up to 3 weeks in advance for the agenda).

- A. **Workshop-1.** This workshop is assumed to be conducted following the initial salt/nutrient assessment (sub-task 1.2.5). During this workshop, South Orange County IRWM Group shall present an overview of the Policy and relevant drivers, the process for SNMP development and SNMP elements, constituents that shall be assessed, and an

- overview of our current understanding regarding salt and nutrient sources in the basin. South Orange County IRWM Group shall prepare maps and related graphics illustrating the study area and our current understanding of the land cover and salt/nutrient sources in the basin. Stakeholders shall be asked for input on these items including relevant technical data they may have.
- B. **Workshop-2.** Results of technical work shall be presented at this workshop, which is assumed to occur following sub-task 1.2.15 completion. An overview of the SNMP and SNMP elements shall be recapped for stakeholders joining the group, however, the focus of this workshop shall be the technical approach, preliminary findings, results of the salt and nitrogen loading analysis, and a summary of the Anti-Degradation Analysis and Proposed Groundwater Monitoring Plan. Slides shall be presented that depict the GIS analysis conducted and Anti-Degradation Analysis. Stakeholders shall be given an opportunity to provide input on the analysis.
- C. **Workshop-3.** The third and final workshop is assumed to take place after the Draft SNMP has been developed and released to the Stakeholder Advisory Committee for comment. The meeting is intended be a forum to discuss and respond to stakeholder comments on the Plan. South Orange County IRWM Group shall be present at the workshop prepared to discuss the Draft Plan.

Deliverables:

- Draft and final agendas, materials and handouts, and meeting notes for Technical Working Group, Stakeholder Advisory Committee, and Salt/Nutrient Management Plan Workshops.
- Four Technical Working Group conference calls at the following points (the call schedule is flexible to accommodate schedules of individual participants):
 1. Project Kick-Off and Source Identification Input
 2. Groundwater Data Collection
 3. Anti-Degradation Analysis and Monitoring Plan Review
 4. Draft Salt/Nutrient Management Plan Review
- Slide presentations for three Salt/Nutrient Management Plan Workshops

Task 1.2.5 Summarize Existing Groundwater Monitoring Programs

Existing databases of well locations, well construction details, geologic logs, water level data and water quality shall be compiled into a GIS. The South Orange County IRWM Group shall request these data from the Technical Working Group. To obtain these data, IRWM Group shall develop a standardized template for specific information that shall be submitted with the data request. These data shall then be uploaded to a GIS.

Deliverables:

- Water quality data request from groundwater and surface water monitoring programs (using electronic template)
- Table describing existing groundwater monitoring programs

Task 1.2.6 Summarize Existing Groundwater Quality Data

Basic statistics shall be used to summarize compiled water quality data, including: dates of first and most recent analytical results; number of reported results; and maximum, minimum, and average concentrations. Chemographs and depth-specific water quality maps shall be prepared for

TDS, nitrogen, and chloride. Chemographs and water quality maps shall be examined to assess potential departures from “background” conditions for these constituents.

Deliverables:

- Figures and tables summarizing groundwater quality data

Task 1.2.7 Salt and Nutrient Source Identification

This task involves developing salt and nutrient identification using GIS. Tasks include:

Task 1.2.8 Develop GIS

The IRWM Group shall develop a GIS for the study area using ArcView. Land cover data shall be compiled using existing GIS coverages from DWR, County, and local agencies. During the first Technical Working Group meeting and subsequently in Workshop-1, IRWM Group shall seek input regarding significant land cover changes that might have taken place since the existing coverages were created.

Task 1.2.9 Identify Constituents

The IRWM Group shall draft a list of salts and nutrients for inclusion in the Plan. Candidates for the recommended list include, but are not limited to: total dissolved solids (TDS), nitrogen compounds (nitrate, nitrite, total nitrogen, TKN and ammonia), phosphorous, boron, arsenic, and chloride. During Workshop-1, the relevance of these and other potential constituents shall be discussed and input regarding other potential compounds received. Although the IRWM Group may collect information for a number of constituents, IRWM Group analysis during this work effort shall focus on TDS and nitrogen for reasons discussed below. Chemicals of emerging concern shall be dealt with in a qualitative fashion since a Blue Ribbon Panel commissioned by the State is currently developing monitoring recommendations for these compounds.

Task 1.2.10 Salt Loading Analysis

Land cover designations shall be assigned to categories representing similar salt, nutrient, irrigation practice, and chemical loading characteristics. The type of water used for outdoor irrigation for each parcel shall be defined using available information, and is assumed to be either: local groundwater, surface water from local streams, Coachella Canal water, recycled water, or State Water Project Water (including groundwater influenced by artificial recharge). Existing recycled water irrigation areas shall be defined using information provided by the Technical Working Group. Other water sources and their places of use shall be identified by IRWM Group based on discussions with local water purveyors and irrigators.

The concentration of constituents (identified above) in each of the source waters shall be characterized using existing data made available to IRWM Group by the Technical Working Group. To obtain these data, the IRWM Group project team shall develop a standardized electronic spreadsheet template for specific information that shall be submitted to stakeholders by IRWM Group with a data request.

Although the IRWM Group may be collecting information for additional constituents, the IRWM Group's analysis during this current work effort shall focus on TDS and nitrogen because they are fundamentally important water quality parameters; they behave conservatively (with the

exception of some nitrogen species in the vadose zone) during transport to groundwater; and they provide basic information needed to understand the behavior of more chemically reactive and complex constituents.

Deliverables:

- GIS coverages populated with salt and nutrient source location and loads
- Water quality data request for water supply sources (using electronic template)

Task 1.2.11 Develop Relational Model to Evaluate Potential for Groundwater Degradation

During this task, GIS data shall be related in a quantitative manner to assess potential for salt and nitrogen loading impacts to groundwater and surface water. Information to be related include: land cover type; irrigation practices; source-water type and constituent concentrations; and assimilative capacities of the various soils and land uses (retention, uptake, removal, and transformation). This model shall be designed to provide an indication of steady state constituent loading to the aquifer at a scale dependent upon detail present on the existing land cover data obtained in Sub-task 1.2.15. The fate and transport of the constituents will not be modeled. The GIS relational model shall be based on the average annual irrigation and water quality inputs collected in prior tasks.

Deliverables:

- No deliverable (other than Power Point presentation for Workshop 2). This Task's findings shall be presented at Workshop-2.

Task 1.2.12 Anti-Degradation Analysis

This task involves analyzing potential groundwater degradation due to constituents and pollutant loading and identifying BMPs for anti-degradation. Tasks include:

Task 1.2.13 Identify Areas of Potential Groundwater Degradation

As part of this task, the relational model developed in Task 1.2.11 shall be used by South Orange County IRWM Group to identify areas of groundwater potentially vulnerable to degradation. Particular emphasis shall be given to areas currently using recycled water. These results shall be compared to TDS, nitrogen, and chloride groundwater quality data compiled and reviewed in sub-task 1.2.15.

Loading of TDS and nitrogen shall be calculated and summed for the various land cover categories identified in sub-task 1.2.15, as well as a basin-wide salt balance. A loading analysis shall also be conducted assuming implementation of planned recycled water projects. Areas of potential excess loading (anomalously high concentrations) shall be identified and compared with results of observed water quality data.

Task 1.2.14 Best Management Practices

Potential remedies for areas that may be impacted by elevated concentrations of salts and nutrients shall be identified and discussed, focusing on Best Management Practices (BMPs). Recommended BMPs may include: salt source control (i.e., water softeners), improved irrigation practices, improved feedlot management, irrigation source water changes, enhanced recharge of

stormwater, and management strategies that might be undertaken at a basin level. The potential benefits of these BMPs for proposed and existing irrigation projects in light of findings from this work effort shall be discussed. Potential benefits of looking at how past land cover and irrigation practices may have impacted groundwater shall be discussed with the Agencies.

Deliverables:

- Maps showing areas of existing and/or potential groundwater degradation (if any)
- A table summarizing BMPs and projected effectiveness in reducing salt and nutrient loads

Task 1.2.15 Develop Recommended Groundwater Monitoring Plan

Based on results of prior tasks, a Groundwater Monitoring Plan shall be designed to fill data gaps and provide ongoing assessment of salt and nutrient issues throughout the study area, using data from existing groundwater monitoring programs as a basis. Data gap analysis shall include analytes (such as Chemicals of Emerging Concern) and potential need for additional monitoring wells. Particular focus shall be paid to using existing wells to assess shallow groundwater quality, particularly near and downgradient of areas identified to be most at-risk for high salt/ nutrient and related chemical loading and areas near existing elevated concentrations of these constituents. The monitoring plan shall include recommendations regarding the frequency of sampling and how the frequency and number of wells may be modified through time as additional data are collected.

Deliverables:

- Draft Groundwater Monitoring Plan
- Final Groundwater Monitoring Plan

Task 1.2.16 Prepare SNMP and Submit to Regional Water Quality Control Board

The outline and content of the SNMP shall be developed as part of the collaborative stakeholder process, but may simply consist of documentation of information developed and presented as part of this work effort and how it relates to maintaining Basin Plan Objectives. The final SNMP shall be developed within the framework of the outline shaped by the Stakeholder Advisory Committee (with review provided by the Agencies, Technical Working Group, and Stakeholder Advisory Committee), and shall provide a basis for the development of basin objectives for key constituents as well as best practices designed to maintain water quality in the future. The team shall present the Final SNMP to Regional Board staff at their offices and facilitate comment response and incorporation to arrive at an approvable SNMP.

Deliverables:

- Draft Salt/Nutrient Management Plan to Technical Working Group (assume two-week review)
- Draft Salt/Nutrient Management Plan to Stakeholder Advisory Committee (assume two-week review)
- Final Draft Salt/Nutrient Management Plan to RWQCB (assume one-month review)
- Final Salt/Nutrient Management Plan

Task 1.3 FLOODPLAIN MANAGEMENT PLAN

The South Orange County IRWM Group will develop a Floodplain Management component for the IRWM Plan Update designed to improve regional flood planning and coordination throughout the region. Tasks include:

Task 1.3.1 Coordination Between Flood Managers

This task includes describing the relationships between various flood managers in the Region, how those flood managers communicate with other water managers, and proactive steps to improving these relationships in the future. This effort will focus on clarifying and improving the coordination between flood managers to ensure that upstream and downstream planning efforts are coordinated and flood risks are minimized.

Task 1.3.2 Integrated Flood Management

This task includes describing how the South Orange County region can practice integrated flood management, including better emergency preparedness and response, improved flood protection, improved stormwater quality, and enhanced floodplain ecosystems. This section will focus on translating the principles of integrated flood management outlined in the *California Water Plan 2009 Update* to the region's flood control efforts. The other Tri-FACC members will be engaged during the technical review of this study so that overlay areas are addressed in a consistent manner.

Task 1.3.3 Workshops

Conduct up to three (3) workshops targeted for flood managers to better define the process of coordinating flood control activities across the region's decentralized agencies.

Deliverables:

- Draft and final Floodplain Management Component of IRWM Plan
- 3 Floodplain Management workshops, including preparation of agendas, presentations, handouts, and notes

Task 1.4 GROUNDWATER MANAGEMENT AND FACILITY PLAN

This task includes developing a groundwater management and facility plan. The following is the Scope of Work:

Task 1.4.1 Define Water Management Objectives

The South Orange County IRWM Group shall conduct formal twice per month meetings, and will meet individually with all the stakeholders several times during the first three months of the investigation to determine their individual issues, needs, and wants; and to develop the basin management goals and the perceived impediments to reaching those goals. These meetings will be used to discuss and request planning and historical information for use in these and other tasks. Working documents will be prepared during this time and circulated to the individual stakeholders for review, comments, and verification. This will ensure that all stakeholders' management objectives, issues, and the impediments to reaching the objectives have been vetted.

Working documents will be reviewed at the twice per month meetings and strategies and specific actions will be introduced to overcome the impediments to the stated objectives. During this time the technical information developed from the following tasks will be presented:

Task 1.4.2 Describe Planning Area and Resources,
Task 1.4.3 Describe Historical and Future Water Requirements, and
Task 1.4.4 Describe Existing Water Resources.

Tasks 1.4.2 and 1.4.4 describe the state of the basin and they are foundational to understanding the basin resources, its response to various stresses, and its constraints. Task 1.4.3 informs the process of the potential water demands and resources (e.g., recycled water).

Deliverables:

- Draft report sections, agendas, and approved meeting minutes will be posted on the project website.
- Draft report tentatively entitled Section 5 Management Objectives and Section 6 Strategies and Actions to Achieve Management Objectives.
- Table containing management objectives, impediments to achieving the objectives, and conceptual level management strategies to overcome the impediments.

Task 1.4.2 Describe Planning Area and Resources

Map exhibits and resource description will be prepared as required utilizing the most current information available from member agencies, Rancho Santa Margarita, County and City planning departments, US Census Bureau, Municipal Water District of Orange County (MWD OC), California Department of Fish and Game, the Center for Demographic Research at California State University Fullerton, and other agencies. Base maps and related summary tables will serve as the basis for the institutional, engineering, financial and environmental analyses during the GWMFP development in Tasks 1.4.1 through 1.4.9, and for exhibits and tables in the GWMFP Report in Task 1.4.10. All the references and GIS shapefiles used in this work will be posted on the project website as they are collected once the Technical Advisory Committee (TAS) has approved their release.

Deliverable:

- Draft report tentatively entitled Section 2 Planning Area and Resources

Task 1.4.3 Historical and Future Water Requirements

The South Orange County IRWM Group will identify significant historical and future water users in the planning area and work aggressively to collect water production, projected demand and supply sources. The information collected in this task will tabulate historical water demands for all significant water users in the planning area and the associated water sources used to meet these demands. Estimates of projected future water demands will be prepared based on the most recent planning information from the significant water users in the planning area. Demand projections to 2035 are being developed by member agencies for the 2010 Urban Water Management Plan (UWMP). Draft projections will be obtained from member agencies and the San Juan Basin will be provided as a draft section of the Plan. The projected demands and water supply plans will be normalized to five year increments through 2035. Both historical and projected future water uses

will be characterized as to type of use (potable and non potable) and subcategories of use to determine the acceptable water source for each type of use.

Deliverable:

- Draft report tentatively entitled Section 4 Historical and Projected Water Demand.

Task 1.4.4 Describe Existing Resources

The intent of the task is to document the existing water resources in sufficient detail that informed decisions can be made regarding the management of these resources consistent with the management of goals of SJBA member agencies and the SJBA as a whole. Prior reports will be reviewed and summarized as appropriate in the work product of this task. The following items will be reviewed as part of this task: surface water and groundwater quality data and surface water discharge data, groundwater level and quality data and evaluation for trends and management issues; estimates of groundwater storage capacity, groundwater in storage, usable unused storage, and develop new estimates of developable yield from various parts of the hydrologic system. Data gaps will be developed, their importance to the implementation of the SJBGMFP, and a recommended plan to fill the data gaps. The GSSI groundwater model of the San Juan Basin will be acquired and reviewed.

Deliverables:

- Draft reports tentatively entitled Section 3 Existing Water Resources, Section 6 Define Alternative Management Plans and Task 7 Evaluate Alternative Management Plans.

Task 1.4.5 Describe Water Management Issues and Strategies

This task will be conducted in unison with Task 1.4.1

Deliverable:

- Draft report tentatively entitled Section 6 Strategies and Actions to Achieve Management Objectives

Task 1.4.6 Define Alternative Management Plans

A series of alternative management plans will be developed and articulated that – if implemented – will allow the SJBA member agencies and the SJBA to meet their groundwater management objectives. Each alternative will include a series of management actions and facilities, description of how these actions and facilities will meet the management objectives, cost opinions, implementation schedules and implementation barriers. The actions and facilities described in this effort will make the most of existing facilities and institutional arrangements, but will not be limited by them. The alternative management plans will likely include various mixes of local (native, recycled and desalinization product water) supplies and imported supplies and local storage to meet future water demands. Each alternative management plan will have different cost and reliability.

Deliverable:

- Draft report tentatively entitled Section 7 Alternative Management Plans.

Task 1.4.7 Evaluate Alternative Management Plans

Criteria will be developed that can be used to objectively compare and rank the alternative management plans, and then to apply these criteria to the management alternatives developed in Task 1.4.6 Define Alternative Management Plans. Criteria will be proposed based on the information collected in Tasks 1.4.1 and 1.4.5, the workshops and professional judgment. These criteria will include technical feasibility, project yield, cost, environmental barriers, institutional barriers, regulatory barriers, and others as identified in this task. Alternative ranking schemes will be developed based on differing priorities so that the alternative management plans can be ranked based on different assumptions on priorities.

Deliverable:

- Draft report tentatively entitled Section 8 Evaluation of Management Plans.

Task 1.4.8 Describe Recommended Management Plan

A comprehensive description of the recommended management plan from which the stakeholders can move into the implementation will be prepared. The comprehensive description will include: individual facility components and their individual and integrated operations, probable ranges in groundwater levels and yield, supplemental water resources, environmental assessment, estimated costs and benefits to individual SJBA members, timelines, capital requirements, groundwater basis management rules and guidelines, and monitoring requirements.

Deliverable:

- Draft report tentatively entitled Section 9 Recommended Management Plan

Task 1.4.9 Develop Monitoring and Reporting Protocols

New information that will need to be collected to refine and implement the recommended management plan will be identified. Current monitoring plans will be reviewed, along with the reasons why monitoring is currently done, the data produced and how well the current programs serve their purposes. Monitoring requirements of the recommended management plan will be described and existing monitoring plans that are useful will be incorporated. Recommendations will be prepared on the procedures to acquire monitoring data, store it, retrieve it and subsequently analyze and report findings.

Deliverable:

- Draft report tentatively entitled Section 10 Recommended Monitoring and Reporting Protocols.

Task 1.4.10 Prepare Groundwater Management Plan Report

A comprehensive administrative draft (AD) that follows the tentative outline listed earlier in the section of the proposal will be prepared that will include draft report sections listed in the preceding tasks. The other Tri-FACC members will be engaged during the technical review of this report so that overlay areas are addressed in a consistent manner.

Deliverables:

- The AD Report will include an executive summary and the IS will be summarized in Section 9 Recommended Management Plan and presented in detail in an Appendix.

- The report will be posted on the project website.
- A summary presentation of the recommended management plan and the public process that was used to develop the plan.
- Comments and responses will be incorporated into the final report. The final report will also document the public process and outreach efforts that were done over the course of the plan development, public hearing notices and the resolution of adoption.
- Fifty copies of the final report will be prepared.
- Final report will be posted on the project website.

Task 1.4.11 Project Meetings and Coordination Activities

Effective stakeholder meetings are critical to the ultimate success of this Groundwater Management Plan.

Deliverables:

- Workshops. Agendas, meeting minutes, meeting calendar, shapefiles, interim and final work products.

Task 1.4.12 Preliminary CEQA Analysis

An Initial Study (IS) for the recommended management plan pursuant to California Environmental Quality Act guidelines will be prepared.

Deliverable:

- An IS for the recommended management plan pursuant to the California Environmental Quality Act guidelines.

Task 1.4.13 Project Management

Project Management will assure that the project is completed within budget and on time.

Deliverable:

- Monthly invoices

TASK 2: REVISE IRWM PLAN (IRWMP)

Work plan components include the following:

TASK 2.1 Outreach and Communication

Task 2.1.1 IRWM Group Meeting and Coordination

This task includes continuing outreach and communication of the South Orange County IRWM Group. The task includes:

- A. Ongoing South Orange County IRWM Group meetings to discuss IRMW Plan implementation, collaborative opportunities, the status of existing projects, proposals for

- new projects, updates from the State, potential funding opportunities and the need for plan refinements.
- B. Providing information and updates on the IRWM process through the OC Watersheds IRWM webpage at: www.ocwatersheds.com/wma_IRWM.aspx.
 - C. Providing access to the IRWM Group for IRWM work products; committee meeting schedules, agendas, and summaries; contact information; and links to relevant web pages and information via email and secure consultant-provided Project Website.
 - D. Incorporate a description of this process into Section 11 of the IRWM Plan.

Deliverables:

- Meeting agendas, draft and final meeting notes, working materials and handouts, contact information, and links to relevant web pages.

Task 2.1.2 Public Outreach Workshops

This task will include facilitation of up to five (5) public workshops. The workshops will be distributed throughout South County and will be held at differing dates and times to ensure participation by both agency staff and other local stakeholders.

Tasks include:

- A. Revised IRWM Plan regional priorities, objectives, resource management strategies and integration.
- B. Revised project prioritization criteria and project selection process
- C. Long -term governance structure, including financing and transition plans
- D. Climate change impact analysis
- E. Updates on salinity and nutrient management planning efforts
- F. Coordination between regional flood managers and land use planners
- G. Project prioritization and integration in the IRWM Plan Update
- H. Incorporate a description of the public outreach process into Section 11 of the IRWM Plan, including outreach to Disadvantaged Communities and Tribal Notification.
- I. Release of Updated IRWM Plan for public review

Deliverables:

- Up to 5 public workshops, including preparation of meeting agendas and handouts, presentations, coordination of speakers / presenters, and draft and final meeting notes.

Task 2.1.3 Coordination with Tri-County FACC

This task includes continued coordination with the Tri-County FACC to maintain ongoing communication between the Regional Management Groups of the three neighboring regions within the San Diego Funding Area. This task also addresses the IRWM planning topics in common across the overlay areas, as well as possible collaboration on implementation projects that address shared water supply and water quality issues. The other Tri-FACC members will be engaged during the technical review of the proposed studies so that overlay areas are addressed in a consistent manner.

Tasks include:

- A. Continued support of the Tri-County FACC, including preparation for and participation in bimonthly Tri-County FACC meetings.

- B. Materials prepared by the Tri-County FACC will include shared IRWM Plan Update text, maps, and graphics.

Deliverables:

- Action items for the South Orange County IRWM Group members, including IRWM Plan Update sections, maps, and other materials.

Task 2.1.4 Tribal Notification and Outreach

The IRWM Group understands the importance of Native American Tribe Notification and will incorporate this process throughout the IRWM Plan Update and CEQA review. The IRWM Group members will conduct ongoing outreach to tribal representatives throughout the region. The IRWM Group will solicit to local tribes as part of the public outreach process throughout the IRWM Plan update. The public meetings will specifically aim to engage tribal representatives in identifying the major issues and priorities of their lands, and how the priority projects may impact them. Tribal issues are incorporated throughout this work plan as part of task execution.

Deliverables:

- Up to 3 outreach meetings, including preparation of draft and final agendas, presentations, handouts, and notes.

Task 2.1.5 Disadvantaged Communities (DAC) Outreach

The IRWM Group members will conduct ongoing outreach to DAC representatives. The IRWM Group will begin by refining the current list of DAC contacts to ensure that all DACs and environmental justice communities are included. The IRWM Group will solicit to DACs as part of the public outreach process throughout the IRWM Plan update process. Participation by the DAC leaders will be encouraged to identify the major issues and priorities of those communities. The Priority Project List will be evaluated to identify impacts to DACs. The IRWM Group will then facilitate development of implementation project work plans, budgets, and schedules for those priority DAC projects. This DAC outreach task will not only help the region to identify needs within the DAC areas, but it will also move the region forward in addressing those needs.

Deliverables:

- Up to 3 outreach meetings, including preparation of draft and final agendas, presentations, handouts, and notes

Task 2.2 South Orange County IRWMP Update

The IRWM Group will develop a draft IRWM Plan preparation, review, and approval process. The IRWM Plan Update will be prepared and a draft PowerPoint presentation for use in considering the IRWM Plan Update for adoption.

Task 2.2.1 Establish Work Group

The South Orange County IRWM Group proposes to develop a Work Group to lead and facilitate completion of Regional Priorities, Objectives, Resource Management Strategies, and Project Prioritization. The work group will consist of members of the IRWM Group with equal representation from the various agency member and responsibilities for the region, including

representatives from watershed management agencies, water supply agencies, - wholesale and retail, groundwater managers, wastewater agencies and cities.

Deliverables:

- No deliverables are included as part of this task. Work Group efforts are included throughout the tasks identified below.

Task 2.2.2 Review Statewide Priorities and Develop Regional Priorities

This task includes developing regional priorities by considering statewide priorities.

This task incorporates the following Statewide Priorities: Drought Preparedness, Use and Reuse Water More Efficiently, Climate Change Response Actions, Expand Environmental Stewardship, Practice Integrated Flood Management, Protect Surface Water and Groundwater Quality, Improves Tribal Water and Natural Resources, and Ensure Equitable Distribution of Benefits.

Tasks include:

- A. Hold a meeting with the South Orange County IRWM Group to review the statewide priorities (as noted above) and identify how they specifically apply to the South Orange County WMA.
- B. Work group will prepare draft regional priorities.
- C. Hold a public workshop to solicit feedback on the Draft Regional Priorities. Specifically invite the region's Disadvantaged Communities (DACs) and Native American tribal communities.
- D. Solicit stakeholder feedback through an appropriate process (e.g. survey, submittal of comments, workshop). Encourage input from the region's Disadvantaged Communities (DACs) and Native American tribal communities.
- E. Revise regional priorities for inclusion into Section 3 of the IRWM Plan.

Deliverables:

- Meeting and public workshop materials, including agendas, handouts, presentations, speakers, draft and final meeting notes.
- Draft Regional Priorities
- Revised Regional Priorities

Task 2.2.3 Revise Draft Objectives and Sub-Objectives

This task will be led by the Work Group and includes revising and prioritizing the draft objectives and sub-objectives.

Tasks include:

- A. Hold a meeting with the IRWM Group to review the established regional priorities and evaluate draft objectives and sub-objectives including metrics.
- B. Select an applicable decision process (decision model, matrix, ranking process) for evaluating the draft objectives and sub-objectives and priority ranking them.

- C. Hold a public workshop to present the prioritized objectives and sub-objectives and to solicit feedback on the prioritization process. The IRWM Group will specifically invite the region's Disadvantaged Communities (DACs) and Native American tribal communities.
- D. Incorporate feedback and revise the prioritized draft objectives and sub-objectives, including metrics for inclusion in Section 4 of the IRWM Plan.

Deliverables:

- Meeting and public workshop materials, including agendas, handouts, presentations, speakers, draft and final meeting notes.
- Draft Objectives and Sub-objectives with priority ranking
- Revised Objectives and Sub-objectives with priority ranking

Task 2.2.4 Revise Draft Integrated Resource Management Strategies

This task will be led by the Work Group and includes revising the draft integrated resource management strategies based on the revised regional priorities and objectives.

This task incorporates the following Program Preference: Integrate water management programs and projects within a hydrologic region. The South Orange County WMA includes the area that encompasses the San Juan Hydrologic Unit (SJHU) in South Orange County, California, as defined in the Water Quality Control Plan of the San Diego Basin (Basin Plan).

This task includes:

- A. Review the draft resource management strategies considering the region's revised regional priorities and objectives.
- B. Select an applicable decision process (decision model/matrix) for evaluating the resource management strategies.
- C. Hold a public workshop and present the process for developing the resource management strategies and solicit feedback on the resource management strategies. The IRWM Group will specifically invite the region's Disadvantaged Communities (DACs) and Native American tribal communities.
- D. Incorporate feedback and revise the resource management strategies for inclusion in Section 5 of the IRWM Plan.

Deliverables:

- Meeting and public workshop materials, including agendas, handouts, presentations, speakers, draft and final meeting notes.
- Draft Resource Management Strategies and decision process.
- Revised Resource Management Strategies and decision process.

Task 2.2.5 Review and Prioritize Project List based on Regional Priorities, Objectives, Resource Management Strategies, and Program Preferences.

This task involves reviewing and prioritizing the project list by developing priority ranking criteria. Priority ranking criteria will be based on the completed Regional Priorities, Objectives, Resource Management Strategies and Program Preferences.

This task incorporates the following Program Preferences: Include regional projects or programs, Effectively resolve significant water-related conflicts within or between regions, Contribute to attainment of one or more of the objective of the CALFED Bay-Delta Program, address critical water supply or water quality needs of disadvantaged communities within the region, Effectively integrate water management with land use planning, and Provide multiple benefits include water quality improvements, ecosystem benefits, reduction of instream erosion and sedimentation, and groundwater recharge.

This task will be led by the Work Group and includes:

- A. Hold a meeting to present the list of projects submitted for inclusion in the IRWM Plan. Describe the procedures for submitting a project to the IRWM Plan.
- B. Review the project list for CEQA status and assess CEQA compliance.
- C. Select an applicable ranking process for evaluating and priority ranking the projects. Review the 2005 criteria ranking for the priority list and revise based on the revised regional priorities, objectives, resource management strategies, and program preferences achieved in previous tasks.
- D. Hold a public workshop and present the process for developing the prioritization and solicit feedback on the process. The IRWM Group will specifically invite the region's Disadvantaged Communities (DACs) and Native American tribal communities.
- E. Incorporate feedback and revise the project priority list in order of ranking for inclusion in Section 6 of the IRWM Plan.

Deliverables:

- Meeting and public workshop materials, including agendas, handouts, presentations, speakers, draft and final meeting notes.
- Draft Priority Project List and Ranking Process.
- Revised Priority Project List and Ranking Process.

Task 2.2.6 Revise Draft Data and Technical Analysis and Management

This task includes evaluating the priority project list and describing the data and technical analysis collected/performed and how that data is managed.

Tasks include:

- A. IRWM Group will review of the Priority Project List and assess project related data and technical analysis and management.
- B. Review draft data and technical analysis discussion based on the priority project data and technical information.
- C. Revise data and technical analysis discussion.
- D. Incorporate revised data and technical analysis into Sections 7 and 9 of the IRWM Plan.

Deliverables:

- Draft Data Management and Technical Analysis.
- Revised Data Management and Technical Analysis

Task 2.2.7 Revise Draft Finance Discussion

This task includes evaluating the draft finance discussion with priority project list funding information.

Tasks include:

- A. Review the project list and identify potential funding sources for projects and programs that implement the IRWM Plan.
- B. Hold a meeting with the IRWM Group to determine the certainty and longevity of the funding sources.
- C. Compile the IRWM Financing plan in a table for inclusion into Section 8 of the IRWM Plan.

Deliverables:

- Meeting materials, including agendas, handouts, presentations, speakers, draft and final meeting notes.
- Draft table of IRWM Financing Plan.
- Revised IRWM Financing Plan.

Task 2.2.8 Coordination with Existing Local/Regional Plans

This task includes establishing the IRWM Plan consistency with local and regional plans. Tasks include:

- A. Hold IRWM Group meeting to review the draft list of local/ regional plans. Identify revisions or missing components.
- B. Incorporate comments/revisions to the list.
- C. Incorporate Climate Change Analysis into Plan once complete.
- D. Incorporate Salt and Nutrient Management Plan once complete.
- E. Incorporate Floodplain Management Plan once complete.
- F. Incorporate Groundwater Management and Facility Plan once complete.
- G. Incorporate revised discussion on local/regional plans into Section 10 of the IRWM Plan.

Deliverables:

- Meeting materials, including agendas, handouts, presentations, speakers, draft and final meeting notes.
- Draft list of local and regional plans.
- Revised list of local and regional plans and discussion.

Task 2.2.9 Implementation and Impacts and Benefits

This task includes review of the Draft IRWM Plan components and priority projects to determine the potential impacts and benefits of IRWM Plan implementation.

Tasks include:

- A. Review priority project list and assess impacts and benefits of individual project implementation. The Priority Project List will also be evaluated to identify impacts to Tribal Communities and DACs.
- B. Review suite of priority projects and assess impacts and benefits of IRWM Plan implementation.

- C. Evaluate how the IRWM Plan will be implemented and how the plan meets the IRWM Plan Standards.
- D. Describe the process of evaluation and IRWM Plan Implementation in Section 6 of the IRWM Plan.

Deliverables:

- Draft Implementation and Impacts and Benefits discussion for IRWM Plan.

Task 2.2.10 Revise and Complete Figures and Maps

This task includes revisions of existing figures and maps for the IRWM Plan. Figures include:

1. Regional Imported Water Distribution System and Water Agencies
2. Wastewater Boundary & Transmission Lines
3. Watershed Overlay Areas
4. Evolution of Regional Planning in the San Diego Funding Area
5. Tri-County FACC Boundaries
6. South Orange County Watershed Management Areas
7. IRWM Region Location Map
8. Topographical Features
9. IRWM Member Cities
10. IRWM Member Districts
11. IRWM Region Watersheds and Surface Water Bodies
12. California Natural Community Conservation Planning
13. Groundwater Basins
14. Impaired Water Bodies
15. Regional Water Quality Control Board
16. Population Information by Tract
17. Median Household Income
18. Disadvantaged Communities
19. Project Locations – Priority A
20. Project Locations – Priority B

Deliverables:

- Draft and Final versions of the 20 maps/figures listed above.

Task 2.2.11 Complete and Present Revised IRWM Plan

Based on the tasks completed above, the IRWM Group will complete a Revised IRWM Plan.

Tasks include:

- A. Revise IRWM Plan, including the following sections:
 1. Introduction
 2. Governance
 3. Regional Description
 4. Objectives
 5. Resource Management Strategies & Integration
 6. Projects, Project Review Process, Impact and Benefit, Plan Performance and Monitoring
 7. Data Management

8. Finance
9. Technical Analysis
10. Coordinating with Existing Local/Regional Plans
11. Stakeholder Involvement and Coordination
12. Climate Change
- Appendix A – Project Priority List
- Appendix B – Salt and Nutrient Management Plan.
- Appendix C – Floodplain Management Plan
- Appendix D – Groundwater Management and Facility Plan
- B. Incorporate revised maps and figures.
- C. Describe steps for evaluation and measurement of Plan success.
- D. IRWM Group will prepare a Draft Revised IRWM Plan for internal review and coordination.
- E. IRWM Group will agree on proposed changes and revisions prior to public release.
- F. IRWM Group will then prepare a Public Review Draft IRWM Plan for review and consideration by the IRWM Group and stakeholders.
- G. Hold public workshop to present and discuss the completed Draft Revised IRWM Plan.
- H. Facilitate review and discussion of the Draft Revised IRWM Plan with stakeholders, including collecting their comments.
- I. Incorporate Comments and Finalize Plan for Board Adoption.

Deliverables:

- Internal Draft Revised IRWM Plan, in accordance with State Guidelines
- Public Review Draft Revised IRWM Plan Update
- Final IRWM Plan

TASK 3. PROPOSAL ADMINISTRATION

This task addresses administration of the planning grant contract between The County of Orange and DWR.

Tasks include:

Task 3.1 Preparation of the Contract and Reporting Materials

This task includes preparation of contract materials, invoices and quarterly report, and final report. Project performance documentation is included.

Deliverables:

- Contract, invoices and progress reports, and project performance documentation